

Application Serial No. 10/759,505
 Response to Office Action of June 13, 2006
 Amdt. dated August 21, 2006
 Examiner: Camie S. Thompson, GAU 1774

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AMENDMENTS TO THE CLAIMS

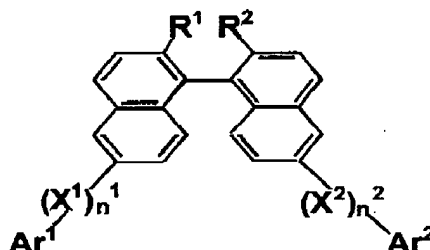
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled)

Claims 2 and 3 (canceled)

Claim 4 (previously presented) A binaphthyl compound of the formula:



wherein each Ar¹ and Ar² is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X¹ and X² is independently a substituted or non-substituted aromatic hydrocarbon, each n¹ and n² is independently 0 or 1, each R¹ and R² is independently a hydroxyl group, a substituted or non-substituted alkyl group, or a substituted or non-substituted alkoxy group, wherein R¹ and R² can be bound to each other to form a ring structure wherein the ring structure can have substituent groups, and wherein the compound's binaphthyl framework can be independently substituted by a halogen, a hydroxyl group, or a substituted or non-substituted alkyl, alkenyl, alkoxy or alkoxy carbonyl group at any position except those occupied by (X¹)_{n¹}Ar¹, (X²)_{n²}Ar², R¹ and R².

Claim 5 (original) The binaphthyl compound of claim 4 wherein each R¹ and R² is an alkoxy group.

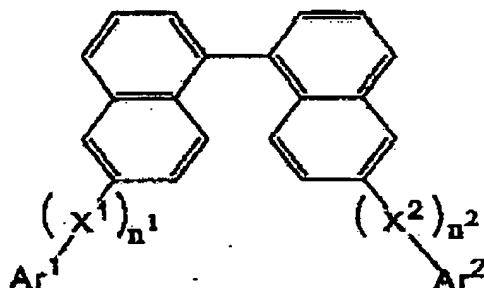
Claims 6 - 11 (canceled)

Claim 12 (original) An organic light emitting device comprising an anode and a cathode, and an emissive layer between the anode and cathode, the device including a layer between the emissive layer and the cathode comprising the binaphthyl compound of claim 4.

Claim 13 (currently amended) An organic light emitting device comprising an anode and a cathode, and an emissive layer between the anode and cathode, the device including a hole-

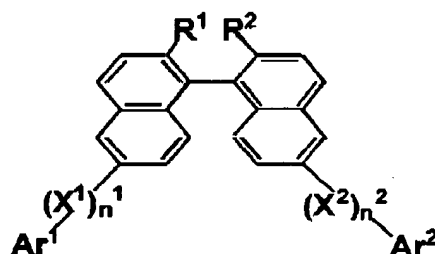
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blocking layer between the emissive layer and the cathode comprising the a binaphthyl compound of claim 1 the formula:



wherein each Ar^1 and Ar^2 is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, and wherein the compound's binaphthyl framework can be independently substituted at any position except those occupied by $(X^1)_{n^1}Ar^1$ and $(X^2)_{n^2}Ar^2$.

Claim 14 (currently amended) An organic light emitting device comprising an anode and a cathode, and an emissive layer between the anode and cathode, the device including a hole-blocking layer between the emissive layer and the cathode comprising the a binaphthyl compound of claim 1 the formula:

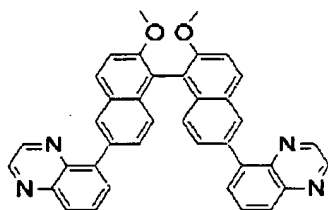


wherein each Ar^1 and Ar^2 is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is

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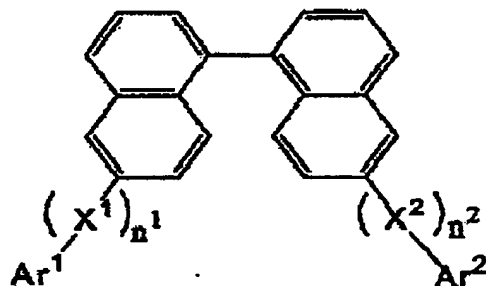
independently 0 or 1, each R^1 and R^2 is independently a hydroxyl group, a substituted or non-substituted alkyl group, or a substituted or non-substituted alkoxy group, wherein R^1 and R^2 can be bound to each other to form a ring structure wherein the ring structure can have substituent groups, and wherein the compound's binaphthyl framework can be independently substituted by a halogen, a hydroxyl group, or a substituted or non-substituted alkyl, alkenyl, alkoxy or alkoxy carbonyl group at any position except those occupied by $(X^1)_{n^1}Ar^1$, $(X^2)_{n^2}Ar^2$, R^1 and R^2 .

Claim 15 (previously presented) The organic light emitting device of claim 14 in which the hole-blocking layer between the emissive layer and the cathode comprises a compound of the formula:



Claims 16 and 17 (canceled)

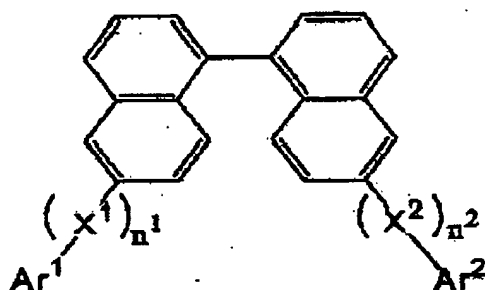
Claim 18 (new) A binaphthyl compound of the formula:



wherein each Ar^1 and Ar^2 is independently a three, four or five-condensed aromatic ring, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, and wherein the compound's binaphthyl framework can be independently substituted at any position except those occupied by $(X^1)_{n^1}Ar^1$ and $(X^2)_{n^2}Ar^2$.

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Claim 19 (new) An organic light emitting device having an anode and cathode and an emissive layer between the anode and cathode, the emissive layer comprising:
a binaphthyl compound of the formula:



wherein each Ar^1 and Ar^2 is independently a three, four or five-condensed aromatic ring, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, and wherein the compound's binaphthyl framework can be independently substituted at any position except those occupied by $(X^1)_{n^1} Ar^1$ and $(X^2)_{n^2} Ar^2$; and
fac-tris(2-phenylpyridine) iridium(III) as a phosphorescent dye dopant.